ACCELERATED LEARNING PROGRAMME (ALP)
LAHORE, SAHIWAL, GUJRANWALA, FAISALABAD, MULTAN, BHAWALPUR
RAWALPINDI , DERA GHAZI KHAN, AZAD KAHSMIR , SARGODHA

9TH CLASS GENERAL MATHEMATICS (ARTS GROUP)

UNIT NO.1 PERCENTAGE, RATIO AND PROPORTION.

EXERCISE NO. 1.1	Q.1 (i)
	Q.2 (i) ,(v)
	Q.4 (vii)
EXERCISE NO.1.2	Q.1, 2,3,4,5,7, 9
EXAPLE -2	1.1.3
EXERCISE NO. 1.4	Q.1 , 2, 3, 7, 8
EXERCISE -1.5	Q.1,2,3,5,7,8,9,10

UNIT NO. 2 ZAKAT, USHR AND INHERITANCE.

EXERCISE NO. 2.1	Q.1, Q.2,Q.3,Q.4, Q.5, Q.6, Q.7, Q.10, Q.11, Q. 12

UNIT NO. 3 BUSINESS MATHEMATICS.

EXERCISE NO. 3.1	Q.1 (i) , (vi)
	Q.4
	Q.5
	Q.3 (i) , (iv) , (v)
EXERCISE NO. 3.2	Q.1 (i)
	Q.5
	Q.6
	Q.2 (ii)
EXERCISE NO. 3.3	Q.1
	Q.2
	Q.3

UNIT NO. 4 FINANCIAL MATHEMATICS.

EXERCISE NO. 4.1	Q.1, Q.2
EXERCIS NO. 4.2	Q.1, Q.2, Q.3, Q.6

EXERCISE NO. 4.3	Q.6 , Q.7,Q.8, Q.9		

UNIT NO. 5 CONSUMER MATHEMATICS.

EXERCISE NO. 5.1		Q. 1, Q.5, Q.6, Q.7	
EXERCISE NO. 5.3		Q. 2, Q. 4, Q.5, Q. 7	

UNIT NO. 6 EXPENSENTS AND LOGARITHMS.

EXERCISE NO. 6.1	Q.3	(iii)	
	Q.4	(x)	
	Q.5	(iii)	
EXERCISE NO.6.2	Q.28	(v)	Q.28, Q.29
EXERCISE NO.6.3	Q.1	1 , 3	Q.11, Q.12, Q.13,Q.14, Q.15,
EXERCISE NO. 6.4	Q.4	(ii)	Q3, 4 6.5
EXERCISE NO.6.5	Q.1	(iii)	Q.2 , (i) ,Q3, 4, 7, 9, 10, 11

UNIT NO. 7 ARITHMETICS AND GEOMETRIC SEQUENCE.

EXERCISE NO. 7.1	Q.1	(i) , (iii), (iv) , (vii)
EXERCISE NO. 7.2	Q.1	(i),(iv)
	Q.2	(i), (v)
	Q.4	
	Q.10	
EXERCISE NO. 7.3	Q.1	(i) , (ii), (iii) , (iv)
	Q.2	
	Q.3	
	Q.4	
	Q.5	
	Q.9	
EXERCISE NO.7.5	Q.1	(i) , (ii)
	Q.2	(i) , (ii)

UNIT NO. 8 SET AND FUNCTIONS

EXPERCISE NO. 8.1	Q.1
	Q.2
	Q.3
	Q.4

	Q.5	
	Q.6	
	Q.7	
EXERCISE NO. 8.2	Q.1	
	Q.2	
	Q.3	
	Q.4	
	Q.5	

UNIT NO. 9 LINEAR GRAPHS

EXERCISE NO. 9.1	Q.1	(vi)
	Q.3	(i) , (ii), (iv)
EXERCISE NO. 9.3	Q.1	(b)
	Q.3	

UNIT NO. 10 BASIC STATISTICS

REVIEW EXERCISE.	Q.3
	Q.5
	Q.6

OR

SHORT QUESITONS:

1. Express 95% as fractions in lowest form.
2. Express the decimal 0.065 as percentage.
3. If there are 800 cars in a car parking and 80% of them are Pakistan made. Find the number of Pakistani cars.
4. Simplify the ration 24:12 in the simplest form
5. Express 12/10 : 28/10 in its simple form
6. What is meant by cost price and sale price?
7. Define direct proportion.
8. Find the ratio of Rs. 160 per meter to Rs.150 per meter.
9. Express ratio 2/3,3/5 in its simplest form.
10. Find the unknown 'x' in the proportion x : 3 :: 60 :15
11. Calculate Zakat on Gold amounting to Rs. 11, 1,000/-
12. Calculate the amount of Zakat on an amount of Rs. 5000000.
13. Find CP when SP = Rs.572/- and profit is 5%
14. Find the SP when CP= Rs. 1540/- Loss = 5%

15. Find the marked Price when SP = Rs. 2400, Discount = 4%
16. Find CP when SP = Rs.851 and loss = 5%
17. Convert 700 Saudi Riyal into Pakistan rupees. When the rate of Saudi Riyal = Rs.22, 400.
18. Convert 250 US dollars into Sterling pound.
19. Define excise duty
20. The annual income of a flat is Rs. 14, 00,000. Find the tax payable at the rate of 16%
21. Define Sales tax.
22. A computer price is Rs. 34800 inclusive of 16% sales tax what is the original price of the computer.
23. Simplify $(x^2y^3)^{1/6}$
24. Write 0.00018 in scientific notation.
25. Solve the equation Log, (x+1) = 2
26. Write down the value of log 52.13
27. Express in exponential form: $\sqrt[3]{\frac{x^7y^9}{z^4}}$
28. $\sqrt{2} + \sqrt[9]{32}$ simplify it.
29. $\sqrt[3]{27x^{18}}$ Simplify it.
30. Find A.M between 4 and 8
31. Find G.M. between 4 and 9
32. Find the 5^{th} term of a G.P. 4, -12, 36……….
33. Convert 20 °C into °F.
34. Find the range of the given data 10,15,9,5, 22
35. Find the standard division of the values 2,3,6,8,11

LONG QUESTIONS:

1. Amina scored 45 out of 50 in a math test, 64 out of 75 in chemistry test and 72 out of 80 in a physics test. In which subject did she perform best?
2. A shop keeper plans to produce 200 articles with the help for 5 persons working 8 hours daily. How many articles can be made by 8 persons if they work 5 hours daily.
3. The price of 20 pens is Rs.2000. What will be the price of 40 such pens?
4. Calculate zakat on gold of worth Rs. 8, 00,000, cash of amount Rs. 4, 00,000 and silver of weight 50 tola (Rs.5000 per tola).
5. If 15% discount on MP of a heater is allowed and still makes a profit of 2%. If it is sold on MP, what is profit percentage?
6. Find compound profit on Rs.800 for 4 years @ 6 percent per annum.
7. Evaluate. 8.67 x 3.94/1.78

8. Draw the graph of $y = 3x$
9. Distribute Rs. 33,000 as a profit in a business regarding three persons if their shares are in the ratio 3: 5:3
10. Insert two G.M. between 4 and 1/2